



## How Smart Cameras Support Critical Infrastructure Security

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Securing critical infrastructure — from power grids to data centers — is a global priority. As threats become more sophisticated, traditional surveillance methods are no longer enough.

Smart cameras are stepping up as proactive, intelligent security tools that do more than just record — they analyze, alert, and adapt in real time.

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### From Video Capture to Real-Time Threat Response

At MOBOTIX, we've worked with utility providers, transport operators, and industrial leaders worldwide — and one theme always emerges: **traditional video systems weren't built for infrastructure realities.**

Large perimeters, remote assets, minimal on-site staff — all these factors demand a smarter approach to surveillance. That's where MOBOTIX excels by delivering cameras that **analyze, detect, and alert directly on the edge.**

We don't just manufacture cameras. We engineer **intelligent, decentralized systems** designed specifically for high-risk, high-reliability environments.

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### What Makes a Smart Camera “Infrastructure-Grade”?

MOBOTIX smart cameras combine hardened industrial design with advanced onboard AI — enabling them to operate as autonomous sensors in the field.

Core features tailored to infrastructure needs include:

- **Decentralized Edge Processing:** No reliance on central servers or cloud processing
- **AI Object & Behavior Detection:** Differentiate people, vehicles, animals, and patterns of movement
- **Environmental Hardening:** IP66/67/69, IK10-rated, with models for -40°C to +65°C

- **Cybersecurity by Design:** Built-in encryption, secure boot, and GDPR-compliant architecture
- **Flexible Integration:** Seamless compatibility with VMS, PSIM, SCADA, and access control platforms

When we say “infrastructure-grade,” we mean it: MOBOTIX cameras are deployed in substations, rail networks, ports, water plants, and data centers across the globe — often in extreme climates and 24/7 operational environments.

[Download our Free Guide](#)

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## Built for Resilience, and Built to Scale

Smart surveillance isn't just about better security. It's about building **resilience into the system itself**.

Our cameras don't stop working when the network drops. With edge-based event handling, they continue to detect and record locally, ensuring no loss of visibility during outages, cyberattacks, or power fluctuations.

MOBOTIX systems also support:

- **Federated multi-site deployments**
- **Remote device health checks and firmware updates**
- **Metadata-rich forensic** search across large datasets
- **Compliance documentation** (e.g., NERC CIP, TSA SDs, ISO 27001)

The result: an ecosystem that's **not just smart, but sustainable, secure, and scalable**.

Critical infrastructure operators can't afford reactive systems. They need intelligent, autonomous surveillance solutions that respond in real time, not minutes later. At MOBOTIX, we've spent over two decades developing and refining technologies that thrive where others fail.

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## Ready to modernize your infrastructure security?

Let's talk about how MOBOTIX can support your mission-critical operations.



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## About MOBOTIX AG

MOBOTIX is a leading manufacturer of intelligent IP video systems in premium quality and sets standards in innovative camera technologies and decentralized security solutions with the highest level of cyber security. MOBOTIX was founded in 1999 and is headquartered in Langmeil, Germany. The company relies on its own research and development as well as its own production "Made in Germany". Customers around the world trust in the durability and reliability of MOBOTIX hardware and software. The flexibility of the solutions, the integrated intelligence and the highest level of data security are appreciated in many industries. MOBOTIX products and solutions support customers in areas such as industrial manufacturing, retail, logistics and healthcare. With strong and international technology partnerships, the company is using artificial intelligence and deep learning modules to expand its universal platform and new applications in a wide range of sectors.

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